

Tectyl® 511M CLASS I**Description**

TECTYL® 511M, Class I is a solvent cutback, water displacing corrosion preventive compound. The semi-firm film is oily, light amber, and translucent. TECTYL® 511M, Class I is approved under Military Specifications MIL-PRF-16173E, Grade 5, for Class I;

MIL-C-23411A, Type II; and MIL-P-116J, Type P-21. TECTYL® 511M, Class I is designed to protect ferrous and non-ferrous industrial parts and transportation components during covered shipment and inside storage.

Laboratory Data

Flash, PMCC*, Minimum
Density, Weight/Gallon @ 77°F (25°C)
Specific Gravity @ 60°F (15.6°C)
Recommended Dry Film Thickness over Metal Profile
Theoretical Coverage @ Recommended DFT
Non-Volatile % by Weight
Non-Volatile % by Volume
Volatile Organic Content (VOC), Maximum
Approximate Dry to Touch Time @ 77°F (25°C)
Cure Time

Typical Properties

106°F
7.19 ± 0.1 lbs./gallon
0.84
0.3 mils
2,138 sq. ft./gallon
46 ± 3
40 ± 3
4.1 lbs./gallon
1 hour
24 hours

Accelerated Corrosion Tests:

5% Salt Spray (Hours)
ASTM**B-117 @ Recommended DFT
(2x4x1/8 in. Polished Steel Panels)

100% Relative Humidity (Hours)
ASTM D-1748 @ Recommended DFT
(2x4x1/8 in. Polished Steel Panels)

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4608

*PMCC (Penske Martin Closed Cup)

**ASTM (American Society for Testing and Materials)

Surface Preparation

The maximum performance of TECTYL® 511M, Class I can be achieved only when the metal surfaces to be protected are clean, dry and free of rust, oil and mill scale. Daubert Chemical Company recommends that the metal substrate temperature be 50-95°F (10-35°C) at the time of product application.

Application

TECTYL® 511M, Class I is formulated to be used as supplied. Ensure uniform consistency prior to use. Continued stirring is generally not required. If the product thickens due to cold storage or loss of solvent during use, contact Daubert Chemical Company. DO NOT THIN TECTYL® 511M, Class I. Incorrect thinning will affect film build, dry time and product performance. Daubert Chemical Company recommends that the ambient and product temperature be 50 - 95°F (10 - 35°C) at time of application. TECTYL® 511M, Class I can be spray dip or flush applied.

Removal

TECTYL® 511M, Class I can be removed with TECTYL® HPS solventborne thinner, vapor degreasing, hot alkaline wash, or low pressure steam. TECTYL® 511M, Class I can be removed from fabrics by normal dry cleaning procedures. Avoid the use of chlorinated or highly aromatic solvents when removing from painted surfaces, as these solvents may adversely affect paint.

Storage

Store TECTYL® 511M, Class I at temperatures between 50-95°F (10-35°C). Mild agitation is recommended prior to use.

Caution

Adequate ventilation is required for cure and to ensure against formation of a combustible liquid. THE PARTIALLY CURED FILM SHOULD NOT BE EXPOSED TO IGNITION SOURCES SUCH AS FLARES, FLAMES, SPARKS, EXCESSIVE HEAT, OR TORCHES. Refer to Daubert's Material Safety Data Sheet for additional handling and first aid information.

Note:

The addition of any product over or under this coating is not recommended. The use of additional coatings could result in chemical incompatibility, thus adversely affecting the performance of this coating as stated in the lab data section. If a product other than Daubert Chemical Company's recommended product is required, written authorization must be obtained from Daubert Chemical Company.

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CAUTION: The data, statements and recommendations set forth in this product information sheet are based on testing, research and other development work which has been carefully conducted by us, and we believe such data, statements and recommendations will serve as reliable guidelines. However, this product is subject to numerous uses under varying conditions over which we have no control, and accordingly, we do NOT warrant that this product is suitable for any particular use. Users are advised to test the product in advance to make certain it is suitable for their particular production conditions and particular use or uses.

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REFER TO MATERIAL SAFETY DATA SHEET FOR HEALTH AND SAFETY INFORMATION.

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CHEMICAL COMPANY, INC.

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4700 South Central Avenue ■ Chicago, IL 60638 ■ 1-800-688-0459 ■ or 708-496-7350 ■ Fax: 708-496-7367

Visit our web site at www.daubert.com ■ Our e-mail is dauchem@daubert.com

